



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

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Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

January 9, 1989

TO: Board of Oil, Gas and Mining

THRU: Kenneth E. May, Associate Director, Mining *LEM*

THRU: Lowell P. Braxton, Administrator *LPR*

FROM: Scott Johnson, Reclamation Engineer *Scott*

RE: Request of Board Concurrence, Amount and Form of
Reclamation Surety, Interpace Industries, Inc., Clinton
Mine, M/049/006, Utah County, Utah, and Pleasant View Mine,
M/057/003, Weber County, Utah

An Executive Summary and a Reclamation Estimate is attached for each of the Clinton and Pleasant View Mines. These clay mines, operated by Interpace Industries, Inc., are located in Utah and Weber Counties, Utah. Due to the amount and form of reclamation surety submitted by the operator, these mines are presented together.

On December 12, 1988, the Division received an irrevocable standby letter of credit, to be used as reclamation surety for both mines, in the amount of \$25,000. The total reclamation surety required is \$118,100. The operator will reach the required amount, through semiannual escrow payments, by December, 1990. Pending approval of this arrangement, the operator has not filled out the required surety forms.

Tentative approval for the Pleasant View Mine was issued on July 22, 1987, and tentative approval for the Clinton Mine was issued on April 19, 1988. Public notices were published in the appropriate newspapers and no written public comments were received for either mine during the thirty day period following the publications.

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Board of Oil, Gas & Mining
Clinton Mine, M/049/006
Pleasant View Mine, M/057/003
January 9, 1989

The following documents are attached for your consideration:

	<u>Pages</u>
1) Executive Summary, Clinton Mine	1, 2
2) Reclamation Estimate, Clinton Mine	3, 4
3) General Location Map, Clinton Mine	5
4) Public Notice, Clinton Mine	6, 7
5) Tentative Approval, Clinton Mine	8
6) Executive Summary, Pleasant View Mine	9, 10
7) Reclamation Estimate, Pleasant View Mine	11
8) General Location Map, Pleasant View Mine	12
9) Public Notice, Pleasant View Mine	13, 14
10) Tentative Approval, Pleasant View Mine	15, 16
11) Escrow Schedule	17
12) Surety	18, 19

The original letter of credit will be available for inspection during the Board Meeting on January 26, 1989.

jb
Attachment
MN17/29-30

EXECUTIVE SUMMARY

Mine Name:	Clinton Mine	I.D. No.:	M/049/006
Operator:	Interpace Industries, Inc.	County:	Utah
	Highway 27	New/Existing:	Existing
	Mica, Washington 99023	Mineral Ownership:	Private
Telephone:	(509) 924-2120	Surface Ownership:	Private
Contact Person:	George Beamer	Lease No.(s):	N/A
Life of Mine:	25 years	Permit Term:	5 Years

Legal Description: Sections 8 and 9, T5S, R1W

Mineral(s) to be Mined: Clay

Mining Methods: Open pit; ripping and bulldozing, truck and shovel

Acres to be Disturbed: 26

Present Land Use: Rangeland, wildlife and mining (currently idle)

Postmining Land Use: Rangeland and wildlife

Variances from Reclamation Standards (Rule M-10) Granted: M-10 (3) Pit impoundment; M-10 (5) Highwalls; and M-10 (13) Dams.

SOILS and GEOLOGY:

Soil Description: The average depth of recoverable topsoil is 3 inches. 5,000 cubic yards of topsoil will be salvaged during life of mine.

pH: 7 - 8

Special Handling Problems: Due to limited topsoil availability, diammonium phosphate (18-46-0) fertilizer will be incorporated into the soil at the rate of 200 lbs./acre.

Geology Description: The clay formations, with a thickness range of 70 to 100 feet, dip to the north at 65 to 80 degrees. The deposit is offset by faults in several locations.

HYDROLOGY:

Ground Water Description: Ground Water stratas lie below anticipated mining development, and no aquifer or stream has been encountered in the existing pits.

Surface Water Description: Surface water is limited to storm activity. A pre-law earth fill dam is located southeast of the Lehi Cut.

Water Monitoring Plan: N/A

ECOLOGY:

Vegetation Type(s); Dominant Species: Existing vegetation cover is 35 percent; Sagebrush and grasses.

Percent Surrounding Vegetative Cover: 35 percent

Wildlife Concerns: Slopes leading into pit impoundments will be suitably graded.

Surface Facilities: None

Mining and Reclamation Plan Summary:

During Operations:

1. Clay will be mined by open pit methods.
2. The overburden will be used to backfill existing pits.
3. All salvageable topsoil will be stockpiled for future reclamation.
4. Safety berms will be constructed along highwalls having slopes exceeding 45 degrees.
5. The clay will be stockpiled on site prior to transportation to Interpace Industries mill in Harrisville, Utah.

Following Operations:

1. Trash will be removed or buried.
2. All mounds and sharp escarpments will be reduced and recontoured.
3. Stockpiled topsoil will be redistributed over the graded areas.
4. The entire disturbed area will be fertilized and seeded.

SURETY:

Amount: \$90,200
Form: Irrevocable Letter of Credit
Renewable Term: Annually until total amount is obtained; thereafter to be reviewed every five years, starting in 1993.

Reclamation Cost Estimate
Clinton Pit, M/049/006
by
Frank Filas
(Revised May 17, 1988)

Backfill Cuts

- A. Haul and place clay stockpiles and pads into the mined out cuts.

8,000 yards at \$1.50 per yard = \$12,000

- B. Backfill waste material and subsoil into the Lehi Cut.

15,000 yards at \$1.50 per yard = \$22,500

- C. Backfill waste material and subsoil into the North Cut.

D-8 Dozer:	10 hours at \$110 per hour	= \$1100
3 yd Loader:	16 hours at \$60 per hour	= 960
7 yd Trucks:	32 hours at \$36 per hour	= 1150

Subtotal = \$3210

- D. Haul miscellaneous piles to the pits and backfill.

3 yd Loader:	16 hours at \$60 per hour	= \$ 960
7 yd Trucks:	32 hours at \$36 per hour	= 1150

Subtotal = \$2110

Total For All Backfilling = \$39,820

Grading and Recontouring

- A. West Cut

D-8 Dozer: 36 hours at \$110 per hour = \$3960

- B. Lehi Cut

D-8 Dozer: 16 hours at \$110 per hour = \$1760

- C. North Cut

D-8 Dozer: 8 hours at \$110 per hour = \$ 880

Total For Grading and Recontouring = \$6600

Redistribute Topsoil and Prepare Seedbed

A. Spread Topsoil (assume 3 inches over 25 acres = 10,000 yards)

10,000 yards at \$1.50 per yard = \$15,000

B. Rip soil with dozer and multishank ripper

D-8 Dozer: 24 hours at \$110 per hour = \$2640

Total for Topsoiling = \$17,640

Broadcast Seeding

A. Tractor, operator, and laborer

60 hours at \$65 per hour = \$3900

B. Seed and fertilizer for 26 acres







26 acres at \$200 per acre = \$5200

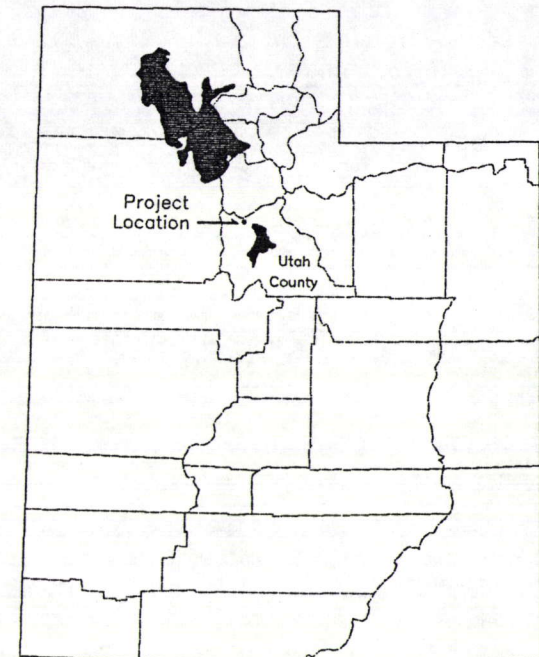
Total for Broadcast Seeding = \$9,100

Summary of Reclamation Costs

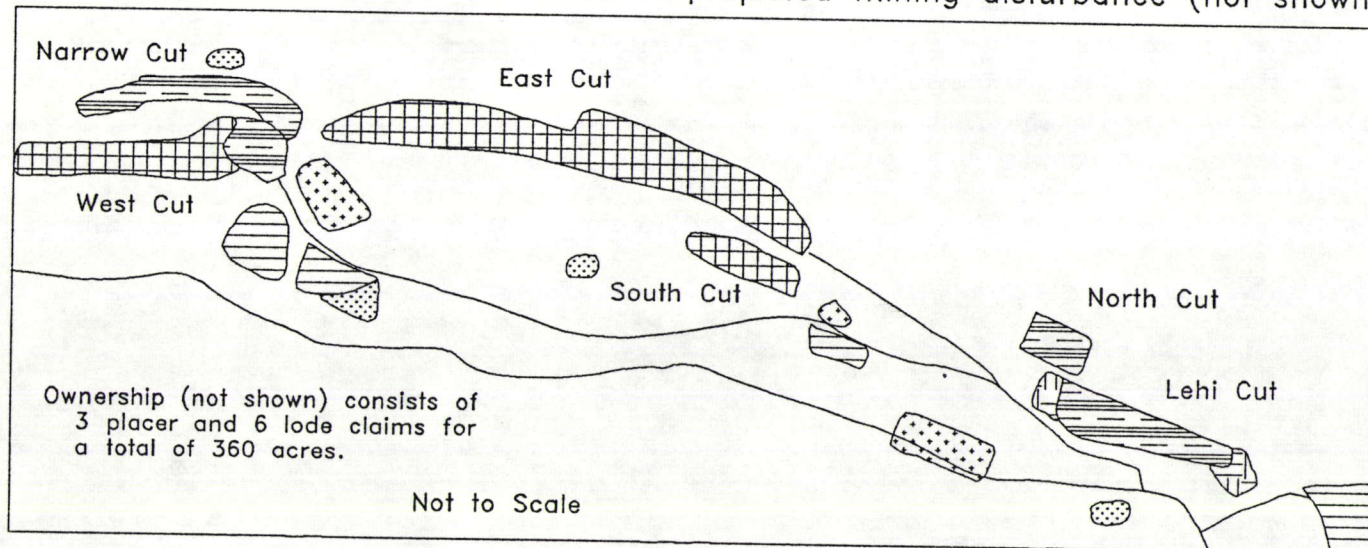
<u>Item</u>	<u>Cost</u>
Backfill Pits	\$39,820
Grading and Recontouring	6,600
Topsoiling	17,640
Broadcast Seeding	<u>9,100</u>
Subtotal	\$73,160
Ten Percent Contingency	<u>\$ 7,316</u>
Total in 1988\$	\$80,476
2.3 % inflation added for 5 years (1993\$)	\$90,200

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-  Pre-Law Pits (22 acres)
-  Pre-Law Spoil and Backfill (7 acres)
-  Pits Mined Following 1975 Act (8 acres)
-  Spoil Placed Following 1975 Act (1 acre)
-  Clay and Reload Pads (5 acres)
-  Topsoil Stockpiles (2 acres)



This permit also covers 9 acres of projected mining disturbance (not shown).



Interpace Industries, Inc
Clinton Mine

Utah County, Utah

OGM File: M/049/006

Map Compiled January 6, 1989



State of Utah
Natural Resources
Oil, Gas and Mining

DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
IN AND FOR THE STATE OF UTAH

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IN THE MATTER OF TENTATIVE
APPROVAL OF THE MINING AND
RECLAMATION PLAN PERMIT
APPLICATION SUBMITTED BY
INTERPACE INDUSTRIES INC.,
UTAH COUNTY, UTAH

:

:

:

NOTICE OF TENTATIVE
APPROVAL
NO. M/049/006

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THE STATE OF UTAH TO ALL OPERATORS, TAKERS OF PRODUCTION,
MINERAL AND ROYALTY OWNERS, AND PARTICULARLY ALL PERSONS INTERESTED
IN SECTIONS 8 AND 9, TOWNSHIP 5 SOUTH, RANGE 1 WEST, SLBM, EMERY
COUNTY, UTAH.

Notice is hereby given that tentative approval was given by the
Division of Oil, Gas and Mining, on April 19, 1988, to Interpace
Industries, Inc. to continue surface mining operations in Sections 8
and 9, Township 5 South, Range 1 West, Utah County, Utah. This
notice is given according to the provisions of Sections 63-46b-4 and
63-46b-5, and the Administrative Procedures for Rules Applicable to
the Reclamation of Lands Mined for Minerals in Utah, R613-1M-11.

The name of the mining operation is the Clinton Clay Pit, and
the person representing the company is Mr. George Beamer, Product
Development Engineer, Highway 27, Mica, Washington 99023,
(509 924-2120).

Interpace Industries Inc. has fulfilled obligations under the
Utah Mined Land Reclamation Act of 1975 (Section 40-8, UCA, 1953, as
amended) with specific reference to Section 40-8-13 and will employ
the following mining and reclamation techniques on approximately 26
acres of privately owned land.

During Operations:

Clay will be mined by open pit methods. The overburden will be
used to backfilled existing pits and all salvageable topsoil will be
stockpiled for future reclamation. The clay will be stockpiled on
site prior to transportation to Interpace's plant in Harrisville.

Following Operations:

All mounds and sharp escarpments will be reduced and recontoured. Stockpiled topsoil will be redistributed over the graded areas and seeded.

The proposed mine plan and any subsequent filings may be inspected in the office of the undersigned, 355 North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203, (801) 538-5340.

Any person or agency aggrieved by this tentative decision is hereby requested to submit written protest within thirty (30) days of the date of publication to the undersigned setting forth factual reasons for his or her complaint, and thereafter, at a time and place to be established, appear before the Board of Oil, Gas and Mining to show cause, if any, why this mine plan should not be approved.

DATED this 22nd day of April 1988.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



Marjorie L. Anderson
Administrative Assistant



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 19, 1988

Mr. George Beamer
Assistant Manager
Interpace Industries, Inc.
Mica Washington 99023

Dear Mr. Beamer:

Re: Tentative Approval, M/049/006, Clinton Pit, Utah County, Utah

The information provided in your March 28, 1988 letter adequately addresses our remaining concerns at the Clinton Pit. The Division hereby grants tentative approval to the Clinton Mine and Reclamation Plan submitted by Interpace Industries, Inc. A summary of the plan will now be published in the local newspapers for a 30 day public comment period.

It is my understanding that Interpace is in the process of obtaining a surety for the Clinton Pit and for the Pleasantview Pit. The Division would like to see these cases finalized as soon as possible. Please contact me or Frank Filas of my staff if you should require additional information or need assistance in any way.

Sincerely,

Lowell P. Braxton
Administrator, Mineral Resource
Development and Reclamation Program

cc: F. Filas

FF

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